

A data processing method for compressing vertex coordinate data of a plurality of polygons approximating a three-dimensional shape of an image, an apparatus therefor, and a program recording medium therefor. Vertexes of a plurality of polygons approximating a three-dimensional shape of an image are divided into a plurality of vertex sets. A reference point is defined for each of the vertex sets. As positional information of each vertex in each of the vertex sets, differential data between the coordinates of the vertex and the coordinates of the reference point is obtained as an integer value indicating the magnitude relative to a predetermined scale value. The coordinate data of the reference point and the differential data in each of the vertex sets are compressed data.